

Application No. 10/056,845
Amendment dated April 8, 2005
Reply to Office Action dated February 9, 2005

AMENDMENT TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A low-temperature oxidation-reduction catalyst comprising:
a noble metal selected from the group consisting of platinum, palladium, gold, silver and rhodium;
a first metal oxide which possesses more than one stable oxidation state including at least tin oxide;
a second metal oxide including at least zirconium oxide; and
~~wherein the~~ said catalyst does not comprise a any halogen component components.
2. (Previously Presented) A low-temperature oxidation-reduction catalyst of claim 1, further comprising a third metal oxide selected from the group consisting of cerium oxide, hafnium oxide, lanthanum oxide, and ruthenium oxide.
3. (Previously Presented) A low-temperature oxidation-reduction catalyst of claim 2, wherein said third metal oxide is cerium oxide.
4. (Previously Presented) A low-temperature oxidation-reduction catalyst of claim 2, wherein said first metal oxide, second metal oxide, and third metal oxide have a mass ratio of about 1.0: 0.5: 0.5.
5. (Previously Presented) A low-temperature oxidation-reduction catalyst of claim 1, further comprising a promoter selected from the group consisting of oxides of the metals of the

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transition series of the periodic table of elements, wherein the promoter is present in an amount sufficient to provide from about 1 to about 12 atom percent of promoter metal to tin metal.

6. (Previously Presented) A low-temperature oxidation-reduction catalyst of claim 1, wherein said noble metal is from about 1 to about 50 weight percent, based on the total weight of the catalyst; and the first and second metal oxide are collectively from about 50 to about 99 weight percent, based on the total weight of the catalyst.
7. (Previously Presented) A low-temperature oxidation-reduction catalyst of claim 1, for use in the oxidation of carbon monoxide.
8. (Previously Presented) A low-temperature oxidation-reduction catalyst of claim 1 for use in the oxidation of formaldehyde.
9. (Previously Presented) A low-temperature oxidation-reduction catalyst of claim 1 for use in the oxidation of volatile organic compounds.
10. (Previously Presented) A low-temperature oxidation-reduction catalyst of claim 9, wherein the volatile organic compounds are hydrocarbons.
11. (Previously Presented) A low-temperature oxidation-reduction catalyst of claim 1 for use in the reduction of nitrogen oxide species.
- 12.-16 (Cancelled)